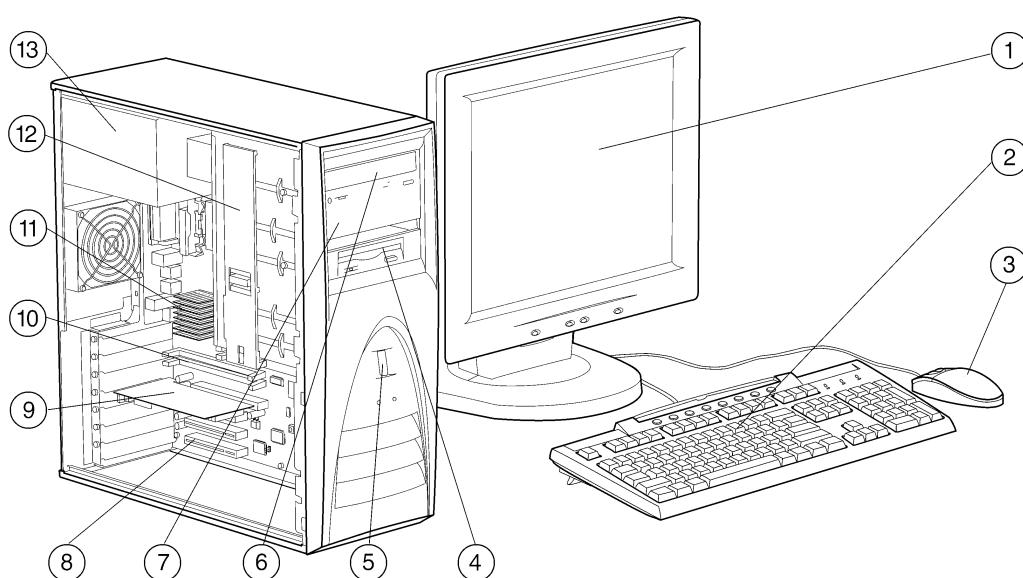


Overview

At A Glance

- Convertible minitower form factor
- Supports up to two Intel® Xeon® processors, up to 2.2-GHz (400 MHz Front Side Bus)
- Intel 860 chipset with 400-MHz front side bus and dual memory channels
- 512-KB L2 cache integrated on processor
- ECC RDRAM expandable to 2 GB
- High-performance Ultra160 SCSI 10,000 rpm or 15,000 rpm hard drives or UATA/100 7200 rpm hard drives
- Integrated Ultra160 SCSI and Ultra ATA/100 controllers
- Up to 360 GB of high-performance internal storage
- Choice of NVIDIA® Quadro2 EX, NVIDIA Quadro2 MXR, NVIDIA Quadro2 Pro, Matrox® Millennium® G450, Matrox G200 Quad Multi-monitor Series, Matrox Millennium G550, ATI Fire GL2, ATI Fire GL4, or 3Dlabs Wildcat™ II 5110 Graphics Controller
- Multiple display support
- Integrated Intel PRO/100+ Management Adapter
- Four total slots (three PCI and one AGP Pro 4X)
- Five bays (three external and two internal)
- CD-ROM, DVD-ROM, or CD-RW drive (depending on model)
- SoundBlaster 128 audio
- Windows® XP® Professional, Windows 2000® Professional and Compaq support software pre-installed
- Protected by Compaq Services, including a three-year, limited warranty — certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details. Three-year onsite and labor not available in all countries.



1. Compaq Monitor (optional)
2. Compaq Keyboard
3. Compaq 3-button Mouse
4. 1.44-MB Diskette Drive
5. On-Off Button
6. CD-ROM Drive or DVD-ROM Drive
7. 5.25-in Drive Bay (available)
8. PCI Slots
9. AGP Pro 4x slot
10. Memory Sockets
11. Processors
12. Drivelock
13. 460-Watt Power Supply

Standard Features - Pre-configured Models

Models	Compaq Evo Workstation W6000 Available in multiple configurations. Not all configurations available in all countries. Check with your Authorized Compaq Reseller or Compaq.	
Processor <i>One of the following:</i>	Intel Xeon processor 1.8 GHz, 512-KB cache Intel Xeon processor 2.0 GHz, 512-KB cache Intel Xeon processor 2.2 GHz, 512-KB cache	
Cache Memory	512-KB integrated, full speed Level 2 cache per processor	
Upgradability	Upgradable to dual processor	
Memory <i>One of the following:</i>	Standard Standard Maximum	1 GB of 800-MHz ECC RDRAM 512 MB of 800-MHz ECC RDRAM 2 GB of 800-MHz ECC RDRAM
Network Controller	Integrated Intel PRO/100+ Management Adapter	
Expansion Slots	I/O (Total) 32-bit/33-MHz PCI AGP Pro 4X	4, up to 3 available 3, up to 3 depending on model 1, up to 1 depending on model
Expansion Bays	(Total/Available)	5/2 2/1 3/1
Storage	Diskette Drive Removable Media Hard Drive	1.44 MB CD-ROM, or DVD-ROM Drive 18.2-GB Ultra160 SCSI (10,000 rpm)
Interfaces	Parallel USB Serial Ultra160 SCSI Ultra ATA/100 Keyboard (PS/2) Pointing Device (PS/2 mouse) Video Microphone Jack Headphone Jack Line-In Jack Line-Out Jack RJ-45	1 4 2 1 (68-pin internal) 2 1 1 1 1 1 1 1 1

Standard Features - Pre-configured Models

Graphics <i>One of the following:</i>	Matrox Millennium G550 with analog and DVI cables (AGP) Matrox Millennium G450 (AGP or PCI) Matrox G200 Quad Multi-monitor Series (PCI) NVIDIA Quadro2 EX (AGP) NVIDIA Quadro2 MXR (AGP) NVIDIA Quadro2 Pro (AGP) ATI Fire GL2 (AGP) ATI Fire GL4 (AGP) 3Dlabs Wildcat II 5110 (AGP)
Audio	Integrated SoundBlaster 128 Audio
Software	Windows 2000 SP2/Windows XP Professional (dual install) Windows XP Professional Windows 2000 Professional or Microsoft Windows NT Workstation 4.0 Microsoft Service Pack 2 for Windows 2000 Professional Microsoft Service Pack 6a for Windows NT 4.0 Compaq Restore CD Compaq Management Agents Compaq PC Diagnostics via the Web ROM-based Setup Diagnostics for Windows 2000 and Windows NT Microsoft Internet Explorer System Software Manager via the Web Altiris eXpress (Limited time license)
Intelligent Manageability	Asset Control Alert on LAN (AoL) hardware ready Wake on LAN (WoL) Fault Management Lite Console Security Management Pre-Failure Warranty (processors, hard drives and memory) Remote Management Remote Wakeup via Magic Packet Support Remote ROM Flash Remote Security Remote Shut Down Bios Features Advanced Configuration and Power Interface (ACPI) 1.0b Advanced Power Management (APM) 1.2 Desktop Management Interface (DMI) 2.1 System Management (SM) Bios 2.3
Security	Diskette write and boot control Flash ROM lock Keyboard password Network server mode Parallel interface control Power-on password Serial interface control Setup password Cable lock provision
Power Supply	460-Watt, with Power Factor Correction
Service and Support	Protected by Compaq Services including a three-year, limited warranty with three-year parts coverage, three year on-site service, and three-year labor; 7 x 24 hardware technical phone support and on-line support through the Internet; Pre-Failure Warranty coverage of hard drives, memory, and processors. Note: Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details. Three-year, onsite and labor not available in all countries.

Pre-configured Models

W6P/2.2/18S/512/Xd <i>470029-950 and graphics option</i>	Processor	Intel Xeon 2.2 GHz
	Cache Memory	512-KB integrated L2
	Memory	512-MB 800-MHz ECC RDRAM
	Optical Drive	16X/40X DVD-ROM Drive
	Hard Drive	18.2-GB Ultra160 SCSI 10,000rpm
	Graphics	Choice of graphics option: Matrox Millennium G550 with analog and DVI cables (AGP) (250227-B21) Matrox Millennium G450 (AGP) (202389-B21) Matrox Millennium G450 (PCI) (202390-B21) Matrox G200 Quad MMS with analog cables (159513-B21) Matrox G200 Quad MMS with DVI cables (179597-B21) NVIDIA Quadro2 EX (250066-B21) NVIDIA Quadro2 MXR (221412-B21) NVIDIA Quadro2 Pro (225339-B21) ATI Fire GL2 (224087-B21) ATI FireGL4 (245012-B21) 3Dlabs Wildcat II 5110 (224085-B21)
	Audio	Integrated SoundBlaster 128 Audio
	OS	Windows 2000 SP2/Windows XP Professional (dual install)
W6P/2.2/18S/1/Xd <i>470029-977 and graphics option</i>	Processor	Intel Xeon 2.2 GHz
	Cache Memory	512-KB integrated, L2
	Memory	1-GB 800-MHz ECC RDRAM
	Optical Drive	16X/40X DVD-ROM Drive
	Hard Drive	18.2-GB Ultra160 SCSI 10,000rpm
	Graphics	Choice of graphics option: Matrox Millennium G550 with analog and DVI cables (AGP) (250227-B21) Matrox Millennium G450 (AGP) (202389-B21) Matrox Millennium G450 (PCI) (202390-B21) Matrox G200 Quad MMS with analog cables (159513-B21) Matrox G200 Quad MMS with DVI cables (179597-B21) NVIDIA Quadro2 EX (250066-B21) NVIDIA Quadro2 MXR (221412-B21) NVIDIA Quadro2 Pro (225339-B21) ATI Fire GL2 (224087-B21) ATI FireGL4 (245012-B21) 3Dlabs Wildcat II 5110 (224085-B21)
	Audio	Integrated SoundBlaster 128 Audio
	OS	Windows 2000 SP2/Windows XP Professional (dual install)

Pre-configured Models

W6P/2.0/18S/512/Xd <i>470031-197 and Compaq after market graphics option</i>	Processor	Intel Xeon 2.0 GHz
	Cache Memory	512-KB integrated L2
	Memory	512-MB 800-MHz ECC RDRAM
	Optical Drive	16X/40X DVD-ROM Drive
	Hard Drive	18.2-GB Ultra160 SCSI 10,000rpm
	Graphics	Choice of graphics option: Matrox Millennium G550 with analog and DVI cables (AGP) (250227-B21) Matrox Millennium G450 (AGP) (202389-B21) Matrox Millennium G450 (PCI) (202390-B21) Matrox G200 Quad MMS with analog cables (159513-B21) Matrox G200 Quad MMS with DVI cables (179597-B21) NVIDIA Quadro2 EX (250066-B21) NVIDIA Quadro2 MXR (221412-B21) NVIDIA Quadro2 Pro (225339-B21) ATI Fire GL2 (224087-B21) ATI FireGL4 (245012-B21) 3Dlabs Wildcat II 5110 (224085-B21)
	Audio	Integrated SoundBlaster 128 Audio
	OS	Windows 2000 SP2/Windows XP Professional (dual install)
W6P/2.0/18S/1/Xd <i>470031-208 and Compaq after market graphics option</i>	Processor	Intel Xeon 2.0 GHz
	Cache Memory	512-KB integrated, L2
	Memory	1-GB 800-MHz ECC RDRAM
	Optical Drive	16X/40X DVD-ROM Drive
	Hard Drive	18.2-GB Ultra160 SCSI 10,000rpm
	Graphics	Choice of graphics option: Matrox Millennium G550 with analog and DVI cables (AGP) (250227-B21) Matrox Millennium G450 (AGP) (202389-B21) Matrox Millennium G450 (PCI) (202390-B21) Matrox G200 Quad MMS with analog cables (159513-B21) Matrox G200 Quad MMS with DVI cables (179597-B21) NVIDIA Quadro2 EX (250066-B21) NVIDIA Quadro2 MXR (221412-B21) NVIDIA Quadro2 Pro (225339-B21) ATI Fire GL2 (224087-B21) ATI FireGL4 (245012-B21) 3Dlabs Wildcat II 5110 (224085-B21)
	Audio	Integrated SoundBlaster 128 Audio
	OS	Windows 2000 SP2/Windows XP Professional (dual install)

Pre-configured Models

W6P/1.8/18S/512/Xd <i>470031-273 and Compaq after market graphics option</i>	Processor	Intel Xeon 1.8-GHz
	Cache Memory	512-KB integrated L2
	Memory	512-MB 800-MHz ECC RDRAM
	Optical Drive	16X/40X DVD-ROM Drive
	Hard Drive	18.2-GB Ultra160 SCSI 10,000 rpm
	Graphics	Choice of graphics option: Matrox Millennium G550 with analog and DVI cables (AGP) (250227-B21) Matrox Millennium G450 (AGP) (202389-B21) Matrox Millennium G450 (PCI) (202390-B21) Matrox G200 Quad MMS with analog cables (159513-B21) Matrox G200 Quad MMS with DVI cables (179597-B21) NVIDIA Quadro2 EX (250066-B21) NVIDIA Quadro2 MXR (221412-B21) NVIDIA Quadro2 Pro (225339-B21) ATI Fire GL2 (224087-B21) ATI FireGL4 (245012-B21) 3Dlabs Wildcat II 5110 (224085-B21)
	Audio	Integrated SoundBlaster 128 Audio
	OS	Windows 2000 SP2/Windows XP Professional (dual install)
W6P/1.8/18S/1/Xd <i>470031-304 and Compaq after market graphics option</i>	Processor	Intel Xeon 1.8-GHz
	Cache Memory	512-KB integrated L2
	Memory	1-GB 800-MHz ECC RDRAM
	Optical Drive	16X/40X DVD-ROM Drive
	Hard Drive	18.2-GB Ultra160 SCSI 10,000 rpm
	Graphics	Choice of graphics option: Matrox Millennium G550 with analog and DVI cables (AGP) (250227-B21) Matrox Millennium G450 (AGP) (202389-B21) Matrox Millennium G450 (PCI) (202390-B21) Matrox G200 Quad MMS with analog cables (159513-B21) Matrox G200 Quad MMS with DVI cables (179597-B21) NVIDIA Quadro2 EX (250066-B21) NVIDIA Quadro2 MXR (221412-B21) NVIDIA Quadro2 Pro (225339-B21) ATI Fire GL2 (224087-B21) ATI FireGL4 (245012-B21) 3Dlabs Wildcat II 5110 (224085-B21)
	Audio	Integrated SoundBlaster 128 Audio
	OS	Windows 2000 SP2/Windows XP Professional (dual install)

Pre-configured Models

W6/2.2/18S/0/Xc <i>470029-895 and Compaq after-market graphics option and memory option</i>	Processor Intel Xeon 2.2 GHz
	Cache Memory 512-KB integrated L2
	Memory Choice of memory option: 512-MB Memory Module (800-MHz ECC) (103996-B21) 256-MB Memory Module (800-MHz ECC) (157341-B21) 128-MB Memory Module (800-MHz ECC) (157338-B21)
	Note: Memory must be installed in like pairs. Option kits contain one memory module.
	Optical Drive 48X Max CD-ROM Drive
	Hard Drive 18.2-GB Ultra160 SCSI 10,000rpm
	Graphics Choice of graphics option: Matrox Millennium G550 Graphics Controller (AGP) (250227-B21) Matrox Millennium G450 (AGP) (202389-B21) Matrox Millennium G450 (PCI) (202390-B21) Matrox G200 Quad MMS with analog cables (159513-B21) Matrox G200 Quad MMS with DVI cables (179597-B21) NVIDIA Quadro2 EX (250066-B21) NVIDIA Quadro2 MXR (221412-B21) NVIDIA Quadro2 Pro (225339-B21) ATI Fire GL2 (224087-B21) ATI FireGL4 (245012-B21) 3Dlabs Wildcat II 5110 (224085-B21)
	Audio Integrated SoundBlaster 128 Audio
	OS Windows 2000 SP2/Windows XP Professional (dual install)
 W6/2.2/36S/0/Xd <i>470029-904 and Compaq after-market graphics option and memory option</i>	Processor Intel Xeon 2.2-GHz
	Cache Memory 512-KB integrated L2
	Memory Choice of memory option: 512-MB Memory Module (800-MHz ECC) (103996-B21) 256-MB Memory Module (800-MHz ECC) (157341-B21) 128-MB Memory Module (800-MHz ECC) (157338-B21)
	Note: Memory must be installed in like pairs. Option kits contain one memory module.
	Optical Drive 16X/40X DVD-ROM Drive
	Hard Drive 36.4-GB Ultra160 SCSI 10,000 rpm
	Graphics Choice of graphics option: Matrox Millennium G550 Graphics Controller (AGP) (250227-B21) Matrox Millennium G450 (AGP) (202389-B21) Matrox Millennium G450 (PCI) (202390-B21) Matrox G200 Quad MMS with analog cables (159513-B21) Matrox G200 Quad MMS with DVI cables (179597-B21) NVIDIA Quadro2 EX (250066-B21) NVIDIA Quadro2 MXR (221412-B21) NVIDIA Quadro2 Pro (225339-B21) ATI Fire GL2 (224087-B21) ATI FireGL4 (245012-B21) 3Dlabs Wildcat II 5110 (224085-B21)
	Audio Integrated SoundBlaster 128 Audio
	OS Windows 2000 Professional/Windows NT Workstation 4.0 (dual install)

Pre-configured Models

W6/2.2/40A/0/Xc <i>470029-911 and Compaq after-market graphics option and memory option</i>	Processor Intel Xeon 2.2 GHz
	Cache Memory 512-KB integrated L2
	Memory Choice of memory option: 512-MB Memory Module (800-MHz ECC) (103996-B21) 256-MB Memory Module (800-MHz ECC) (157341-B21) 128-MB Memory Module (800-MHz ECC) (157338-B21)
	Optical Drive 48X Max CD-ROM Drive
	Hard Drive 40-GB Ultra ATA/100 7200 rpm
	Graphics Choice of graphics option: Matrox Millennium G550 Graphics Controller (AGP) (250227-B21) Matrox Millennium G450 (AGP) (202389-B21) Matrox Millennium G450 (PCI) (202390-B21) Matrox G200 Quad MMS with analog cables (159513-B21) Matrox G200 Quad MMS with DVI cables (179597-B21) NVIDIA Quadro2 EX (250066-B21) NVIDIA Quadro2 MXR (221412-B21) NVIDIA Quadro2 Pro (225339-B21) ATI Fire GL2 (224087-B21) ATI FireGL4 (245012-B21) 3Dlabs Wildcat II 5110 (224085-B21)
	Audio Integrated SoundBlaster 128 Audio
	OS Windows 2000 SP2/Windows XP Professional (dual install)
 W6/2.0/40A/0/Xc <i>470031-142 and Compaq after-market graphics option and memory option</i>	 Processor Intel Xeon 2.0 GHz
	Cache Memory 512-KB integrated L2
	Memory Choice of memory option: 512-MB Memory Module (800-MHz ECC) (103996-B21) 256-MB Memory Module (800-MHz ECC) (157341-B21) 128-MB Memory Module (800-MHz ECC) (157338-B21)
	Optical Drive 48X Max CD-ROM Drive
	Hard Drive 40-GB Ultra ATA/100 7200 rpm
	Graphics Choice of graphics option: Matrox Millennium G550 Graphics Controller (AGP) (250227-B21) Matrox Millennium G450 (AGP) (202389-B21) Matrox Millennium G450 (PCI) (202390-B21) Matrox G200 Quad MMS with analog cables (159513-B21) Matrox G200 Quad MMS with DVI cables (179597-B21) NVIDIA Quadro2 EX (250066-B21) NVIDIA Quadro2 MXR (221412-B21) NVIDIA Quadro2 Pro (225339-B21) ATI Fire GL2 (224087-B21) ATI FireGL4 (245012-B21) 3Dlabs Wildcat II 5110 (224085-B21)
	Audio Integrated SoundBlaster 128 Audio
	OS Windows 2000 SP2/Windows XP Professional (dual install)

Pre-configured Models

W6/2.0/18S/0/Xc <i>470031-140 and Compaq after-market graphics option and memory option</i>	Processor Intel Xeon 2.0 GHz
	Cache Memory 512-KB integrated L2
	Memory Choice of memory option: 512-MB Memory Module (800-MHz ECC) (103996-B21) 256-MB Memory Module (800-MHz ECC) (157341-B21) 128-MB Memory Module (800-MHz ECC) (157338-B21)
	Optical Drive 48X Max CD-ROM Drive
	Hard Drive 18.2-GB Ultra160 SCSI 10,000rpm
	Graphics Choice of graphics option: Matrox Millennium G550 Graphics Controller (AGP) (250227-B21) Matrox Millennium G450 (AGP) (202389-B21) Matrox Millennium G450 (PCI) (202390-B21) Matrox G200 Quad MMS with analog cables (159513-B21) Matrox G200 Quad MMS with DVI cables (179597-B21) NVIDIA Quadro2 EX (250066-B21) NVIDIA Quadro2 MXR (221412-B21) NVIDIA Quadro2 Pro (225339-B21) ATI Fire GL2 (224087-B21) ATI FireGL4 (245012-B21) 3Dlabs Wildcat II 5110 (224085-B21)
	Audio Integrated SoundBlaster 128 Audio
	OS Windows 2000 SP2/Windows XP Professional (dual install)
 W6/2.0/18K/0/Xd <i>470031-144 and Compaq after-market graphics option and memory option</i>	 Processor Intel Xeon 2.0-GHz
	Cache Memory 512-KB integrated L2
	Memory Choice of memory option: 512-MB Memory Module (800-MHz ECC) (103996-B21) 256-MB Memory Module (800-MHz ECC) (157341-B21) 128-MB Memory Module (800-MHz ECC) (157338-B21)
	Optical Drive 16X/40X DVD-ROM Drive
	Hard Drive 18.2-GB Ultra160 SCSI 15,000 rpm
	Graphics Choice of graphics option: Matrox Millennium G550 Graphics Controller (AGP) (250227-B21) Matrox Millennium G450 (AGP) (202389-B21) Matrox Millennium G450 (PCI) (202390-B21) Matrox G200 Quad MMS with analog cables (159513-B21) Matrox G200 Quad MMS with DVI cables (179597-B21) NVIDIA Quadro2 EX (250066-B21) NVIDIA Quadro2 MXR (221412-B21) NVIDIA Quadro2 Pro (225339-B21) ATI Fire GL2 (224087-B21) ATI FireGL4 (245012-B21) 3Dlabs Wildcat II 5110 (224085-B21)
	Audio Integrated SoundBlaster 128 Audio
	OS Windows 2000 SP2/Windows XP Professional (dual install)

Pre-configured Models

W6/2.0/36S/0/Xd <i>470031-146 and Compaq after-market graphics option and memory option</i>	Processor Intel Xeon 2.0-GHz
	Cache Memory Memory 512-KB integrated L2 Choice of memory option: 512-MB Memory Module (800-MHz ECC) (103996-B21) 256-MB Memory Module (800-MHz ECC) (157341-B21) 128-MB Memory Module (800-MHz ECC) (157338-B21) Note: Memory must be installed in like pairs. Option kits contain one memory module.
	Optical Drive 16X/40X DVD-ROM Drive
	Hard Drive 36.4-GB Ultra160 SCSI 10,000 rpm
	Graphics Choice of graphics option: Matrox Millennium G550 Graphics Controller (AGP) (250227-B21) Matrox Millennium G450 (AGP) (202389-B21) Matrox Millennium G450 (PCI) (202390-B21) Matrox G200 Quad MMS with analog cables (159513-B21) Matrox G200 Quad MMS with DVI cables (179597-B21) NVIDIA Quadro2 EX (250066-B21) NVIDIA Quadro2 MXR (221412-B21) NVIDIA Quadro2 Pro (225339-B21) ATI Fire GL2 (224087-B21) ATI FireGL4 (245012-B21) 3Dlabs Wildcat II 5110 (224085-B21)
	Audio Integrated SoundBlaster 128 Audio
	OS Windows 2000 SP2/Windows XP Professional (dual install)
W6/1.8/40A/0/Xc <i>470031-243 and Compaq after-market graphics option and memory option</i>	Processor Intel Xeon 1.8-GHz
	Cache Memory Memory 512-KB integrated L2 Choice of memory option: 512-MB Memory Module (800-MHz ECC) (103996-B21) 256-MB Memory Module (800-MHz ECC) (157341-B21) 128-MB Memory Module (800-MHz ECC) (157338-B21) Note: Memory must be installed in like pairs. Option kits contain one memory module.
	Optical Drive 48X Max CD-ROM Drive
	Hard Drive 40-GB Ultra ATA/100 7200 rpm
	Graphics Choice of graphics option: Matrox Millennium G550 Graphics Controller (AGP) (250227-B21) Matrox Millennium G450 (AGP) (202389-B21) Matrox Millennium G450 (PCI) (202390-B21) Matrox G200 Quad MMS with analog cables (159513-B21) Matrox G200 Quad MMS with DVI cables (179597-B21) NVIDIA Quadro2 EX (250066-B21) NVIDIA Quadro2 MXR (221412-B21) NVIDIA Quadro2 Pro (225339-B21) ATI Fire GL2 (224087-B21) ATI FireGL4 (245012-B21) 3Dlabs Wildcat II 5110 (224085-B21)
	Audio Integrated SoundBlaster 128 Audio
	OS Windows 2000 SP2/Windows XP Professional (dual install)

Pre-configured Models

W6/1.8/18S/0/Xc <i>470031-241 and Compaq after-market graphics option and memory option</i>	Processor	Intel Xeon 1.8 GHz
	Cache Memory	512-KB integrated L2
	Memory	Choice of memory option: 512-MB Memory Module (800-MHz ECC) (103996-B21) 256-MB Memory Module (800-MHz ECC) (157341-B21) 128-MB Memory Module (800-MHz ECC) (157338-B21) Note: Memory must be installed in like pairs. Option kits contain one memory module.
	Optical Drive	48X Max CD-ROM Drive
	Hard Drive	18.2-GB Ultra160 SCSI 10,000rpm
	Graphics	Choice of graphics option: Matrox Millennium G550 Graphics Controller (AGP) (250227-B21) Matrox Millennium G450 (AGP) (202389-B21) Matrox Millennium G450 (PCI) (202390-B21) Matrox G200 Quad MMS with analog cables (159513-B21) Matrox G200 Quad MMS with DVI cables (179597-B21) NVIDIA Quadro2 EX (250066-B21) NVIDIA Quadro2 MXR (221412-B21) NVIDIA Quadro2 Pro (225339-B21) ATI Fire GL2 (224087-B21) ATI FireGL4 (245012-B21) 3Dlabs Wildcat II 5110 (224085-B21)
	Audio	Integrated SoundBlaster 128 Audio
	OS	Windows 2000 SP2/Windows XP Professional (dual install)

Standard Features – Custom Configuration Models

Processor	Intel Xeon processor 1.8 GHz, 512-KB cache	
<i>One of the following:</i>		Intel Xeon processor 2.0GHz, 512-KB cache
		Intel Xeon processor 2.2 GHz, 512-KB cache
Cache Memory	512-KB integrated, full speed Level 2 cache per processor	
Upgradability	Upgradable to dual processor	
Memory	Maximum	2 GB of 800-MHz ECC RDRAM
Network Controller	Integrated Intel PRO/100+ Management Adapter 3COM 3C920C PCI card	
Expansion Slots	I/O (Total) 32-bit/33-MHz PCI AGP Pro 4X	4, up to 3 available 3, up to 3 depending on model 1, up to 1 depending on model
Expansion Bays	(Total/Available) Internal External	5/2 2/1 3/1
Storage	Diskette Drive Removable Media Hard Drives Tape Drives	1.44 MB CD-ROM, CD-RW or DVD-ROM drive 72-GB, 36.4-GB, 18.2-GB Ultra160 SCSI (10,000 rpm) 36.4-GB, 18.2-GB Ultra160 SCSI (15,000 rpm) 120-GB, 80, 60-GB, 40-GB or 20-GB Ultra ATA/100 (7200 rpm) TR5 10/20-GB 250-MB ATAPI ZIP Ecrix 33/66 GB VXA-1 Tape Drive (SCSI or IDE)
Interfaces	Parallel USB Serial Ultra160 SCSI Ultra ATA/100 Keyboard (PS/2) Pointing Device (PS/2 mouse) Video Microphone Jack Headphone Jack Line-In Line-Out RJ-45	1 4 2 1 (68-pin internal) 2 1 1 1 1 1 1 1 1
Graphics	Matrox Millennium G550 with analog and DVI cables (AGP) Matrox Millennium G450 (AGP or PCI) Matrox G200 Quad Multi-monitor Series (PCI) NVIDIA Quadro2 EX (AGP) NVIDIA Quadro2 MXR (AGP) NVIDIA Quadro2 Pro (AGP) ATI Fire GL2 (AGP) ATI FireGL4 (AGP) 3Dlabs Wildcat II 5110 (AGP)	
<i>One of the following:</i>		

Options

Processor	Intel Xeon processor 1.8 GHz, 512-KB cache	277599-B21
	Intel Xeon processor 2.0 GHz, 512-KB cache	277600-B21
	Intel Xeon processor 2.2 GHz, 512-KB cache	267805-B21
Note: When adding an additional processor, both processors must have the same speed and cache size.		
Memory (RDRAM)	512-MB Memory Module Upgrade Kit (800-MHz ECC)	103996-B21
	256-MB Memory Module Upgrade Kit (800-MHz ECC)	157341-B21
	128-MB Memory Module Upgrade Kit (800-MHz ECC)	157338-B21
Note: Memory must be installed in like pairs. Option kits contain one memory module. Only 800-MHz speed is qualified..		
Monitors	TFT8030 Flat Panel Color Monitor (18-inch, Carbon/Silver)	234362-001
	TFT8020 Flat Panel Color Monitor (18-inch, Carbon)	159244-001
	TFT8020 Flat Panel Color Monitor (17-inch, Opal)	326100-001
	TFT7020 Flat Panel Color Monitor (17-inch, Carbon/Silver, baseless)	253218-001
	TFT7020 Flat Panel Color Monitor (17-inch, Carbon/Silver, built in speakers)	253217-001
	TFT5030 Flat Panel Color Monitor (15-inch, Carbon/Silver)	228134-001
	TFT5015 Flat Panel Color Monitor (15-inch, Multimedia)	234046-001
	TFT5015 Flat Panel Color Monitor (15-inch, Carbon/Silver)	234044-001
	TFT5015 Flat Panel Color Monitor (15-inch, Opal)	234043-001
	P1220 CRT Color Monitor (22-inch, Carbon/Silver)	244374-001
	P920 CRT Color Monitor (19-inch, Carbon/Silver)	244375-001
	P720 CRT Color Monitor (17-inch, Carbon/Silver Two Tone)	244373-001
	V720 CRT Color Monitor (17-inch, Carbon/Silver Two Tone)	232944-001
Note: AssetControl monitor. AssetControl features are accessible with Compaq Workstations featuring Intelligent Manageability.		
Graphics	Matrox G200 Quad Multi-monitor Series with cables for analog output (PCI)	159513-B21
	Matrox G200 Quad Multi-monitor Series with cables for DVI output (PCI)	179597-B21
	Matrox G200 Quad MMS DVI Upgrade Cable Kit (for option kit 159513-B21)	170840-B21
	Matrox Millennium G550 with analog and DVI cables (AGP)	250227-B21
	Matrox Millennium G450 (PCI)	202390-B21
	Matrox Millennium G450 (AGP)	202389-B21
	NVIDIA Quadro2 EX (AGP)	250066-B21
	NVIDIA Quadro2 MXR (AGP)	221412-B21
	NVIDIA Quadro2 Pro (AGP)	225339-B21
	ATI FireGL2 (AGP)	224087-B21
	ATI FireGL4 (AGP)	245012-B21
	3Dlabs Wildcat II 5110 (AGP Pro 4X)	224085-B21
Diskette Drives	250-MB ATAPI ZIP (carbon)	294416-B22
	250-MB ATAPI ZIP Media 3-Pack	217896-B21
Tape Drives	TR5 10/20-GB	294243-B22
	TR5 10/20-GB Media 3-pack	125782-B21
	33/66GB VXA-1 IDE	237109-B22
	33/66GB VXA-1 SCSI	237108-B22
	33/66GB VXA-1 Media 2-pack	237111-B21
	VXA-1 Cleaning Cartridge	237110-B21

Options

Hard Drives	<u>Ultra3 (Ultra160) SCSI Drives</u>	
	72-GB Ultra160 SCSI 10,000 rpm	250023-B21
	36.4-GB Ultra160 SCSI 10,000 rpm	191189-B21
	36.4-GB Ultra 160 SCSI 15,000 rpm	250022-B21
	18.2-GB Ultra160 SCSI 15,000 rpm	191188-B21
	18.2-GB Ultra160 SCSI 10,000 rpm	159764-B21
Storage Controllers	<u>Ultra ATA Drives</u>	
	120-GB Ultra ATA 7200 rpm Quiet Seek and Quiet Idle	250021-B21
	80-GB Ultra ATA 7200 rpm Quiet Seek and Quiet Idle	250020-B21
	60-GB Ultra ATA 7200 rpm Quiet Seek and Quiet Idle	230253-B21
	40-GB Ultra ATA 7200 rpm Quiet Seek and Quiet Idle	201066-B21
	20-GB Ultra ATA 7200 rpm Quiet Seek	176272-B21
Biometrics	USB Biometric FIT Device (Carbon)	240238-B21
Multimedia	48X CD-ROM (carbon)	187217-B22
	16X/10X/40X CD-RW Drive (carbon)	240598-B22
	16X/40X DVD-ROM (carbon, without MPEG2 decoder)	237495-B22
	12X/8X/32X CD-RW Drive (carbon)	217682-B22
	8X Combo CD-RW/DVD-ROM (carbon)	244885-B22
	4.7-GB DVD-RAM Drive (carbon)	294415-B22
	4.7-GB DVD RAM (Single Sided) Media Kit	211082-B21
	Labtec Spin-22 Carbon Speakers	246637-001
	Compaq Digital Video (DV) Option Kit	229966-B21
	IEEE 1394 PCI Card with Adobe Premiere 6.0	
	4.7-GB DVD-RW drive (carbon)	246625-B22
	4.7-GB DVD-RAM (Single Sided) Media Kit	211082-B21
Communications	Compaq NC3123 Fast Ethernet NIC PCI 10/100 WoL	174830-B21
	Compaq NC3134: 64 PCI, Dual Base 10/100 WoL	138603-B21
	Compaq NC3135: 10/100 Dual Upgrade Module (for NC3134)	138604-B21
	Compaq NC6134: Gbit NIC 64 PCI 1000SX	174818-B21
	Compaq NC6136 Fiber Gbit NIC	203539-B21
	Compaq NC7131 Gigabit Server Adapter PCI (64/44 10/100/1000-T)	158575-B21
	Lucent V.90 56K PCI Win Modem	239137-B21
	Intel Pro/100+Management Adapter w/IP Security (Single Pack)	212953-B21
	Intel Pro/100+Management Adapter w/IP Security (20 Pack)	212954-B21
Uninterruptible Power Systems	Compaq Tower UPS Model T1500 (low voltage)	242688-003
	Compaq Tower UPS Model T1000 (low voltage)	242688-001
	Compaq Tower UPS Model T700 (low voltage)	295372-B21

Options

Other	Compaq Scroll Mouse (carbon)	170299-B22
	3 Button Mouse (carbon)	269192-B23
	Compaq Easy Access Keyboard (Carbon)	202109-008
	External SCSI Adapter 68-/50-Pin	270187-B21
	Sliding Shelf Kit	332564-B21
	5 Device LVD/SE Cable Kit	230777-B21
	Spaceball 4000 3D Motion Controller (Carbon)	112138-B22
	Rack Fixed Shelf	303606-B21
	Depth Adjustable Rails	332558-B21
Support Software CD	Single CD-ROM (current month)	272505-001

Memory

Compaq Evo Workstation W6000

STANDARD MEMORY

256-MB of 800-MHz ECC RDRAM is standard. Memory must be installed in like pairs. (Only 800-MHz memory speed is supported.)

STANDARD MEMORY PLUS OPTIONAL MEMORY

Support for up to 1280 MB of 800-MHz ECC RDRAM is available with the installation of optional Memory Kits. Memory must be installed in like pairs.

STANDARD MEMORY REPLACED WITH OPTIONAL MEMORY

Support for up to 2 GB of 800-MHz ECC RDRAM is available with the removal of the standard 128-MB RDRAM modules and the installation of optional 512MB 800-MHz ECC RDRAM Kits. Memory must be installed in like pairs

Note: This chart does not represent all possible memory configurations. Memory must be installed in like pairs. Option kits contain one memory module.

Memory		Memory Channel A		Memory Channel B	
		XMM1	XMM2	XMM3	XMM4
Standard	256 MB	128 MB	CRIMM	128 MB	CRIMM
Optional	512 MB	128 MB	128 MB	128 MB	128 MB
Optional	768 MB	128 MB	256 MB	128 MB	256 MB
Maximum	1024 MB	256 MB	256 MB	256 MB	256 MB
Maximum	2048 MB	512 MB	512 MB	512 MB	512 MB

Following are memory options available from Compaq:

- 512-MB Memory Kit (800 MHz ECC RDRAM) 103996-B21
- 256-MB Memory Kit (800 MHz ECC RDRAM) 157341-B21
- 128-MB Memory Kit (800 MHz ECC RDRAM) 157338-B21

Memory

Compaq Evo Workstation W6000

STANDARD MEMORY

512-MB of 800-MHz ECC RDRAM is standard. Memory must be installed in like pairs. (Only 800-MHz memory speed is supported.)

STANDARD MEMORY PLUS OPTIONAL MEMORY

Support for up to 1536 MB of 800-MHz ECC RDRAM is available with the installation of optional ECC RDRAM Kits. Memory must be installed in like pairs.

STANDARD MEMORY REPLACED WITH OPTIONAL MEMORY

Support for up to 2 GB of 800-MHz ECC RDRAM is available with the removal of the standard 128-MB RDRAM modules and the installation of optional 512MB 800-MHz ECC RDRAM Kits. Memory must be installed in like pairs.

Note: This chart does not represent all possible memory configurations. Memory must be installed in like pairs. Option kits contain one memory module.

Memory		Memory Channel A		Memory Channel B	
		XMM1	XMM2	XMM3	XMM4
Standard	512 MB	256 MB	CRIMM	256 MB	CRIMM
Optional	1024 MB	256 MB	256 MB	256 MB	256 MB
Optional	2048 MB	512 MB	512 MB	512 MB	512 MB

Following are memory options available from Compaq:

- 512-MB Memory Kit (800 MHz ECC RDRAM) 103996-B21
- 256-MB Memory Kit (800 MHz ECC RDRAM) 157341-B21
- 128-MB Memory Kit (800 MHz ECC RDRAM) 157338-B21

Memory

Compaq Evo Workstation W6000

STANDARD MEMORY

1 GB of 800-MHz ECC RDRAM is standard. Memory must be installed in like pairs. (Only 800-MHz memory speed is supported.)

STANDARD MEMORY PLUS OPTIONAL MEMORY

Support for up to 2 GB of ECC RDRAM. Memory must be installed in like pairs.

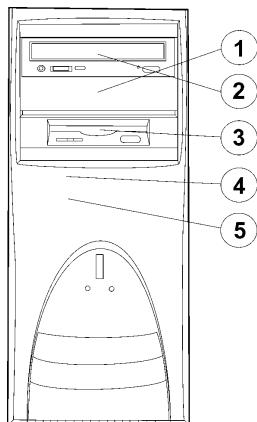
Note: This chart does not represent all possible memory configurations. Memory must be installed in like pairs. Option kits contain one memory module.

Memory	Memory Channel A		Memory Channel B	
	XMM1	XMM2	XMM3	XMM4
Standard	1024 MB	512 MB	CRIMM	512 MB
Optional	2048 MB	512 MB	512 MB	512 MB

Following are memory options available from Compaq:

- 512-MB Memory Kit (RDRAM RIMM, 800 MHz) 103996-B21
- 256-MB Memory Kit (RDRAM RIMM, 800 MHz) 157341-B21
- 128-MB Memory Kit (RDRAM RIMM, 800 MHz) 157338-B21

Storage



DRIVE SUPPORT

	Quantity Supported	Position Supported	Controller
Removable Media			
1.44-MB Diskette Drive	Up to 1	1, 2, 3	Integrated
CD-ROM Drive	Up to 1	1, 2	Integrated EIDE
250-MB ATAPI ZIP Drive	Up to 1	1, 2	Integrated EIDE
16X/40X DVD-ROM Drive	Up to 1	1, 2	Integrated EIDE
16X/10X/40X CD-RW Drive	Up to 1	1, 2	Integrated EIDE
8X Combo CD-RW/DVD-ROM	Up to 1	1, 2	Integrated EIDE
TR5 10/20-GB tape drive	Up to 1	1, 2	Integrated EIDE
33/66GB VXA-1 tape drive	Up to 1	1, 2	Integrated EIDE
4.7-GB DVD-RAM Drive	Up to 1	1, 2	Integrated EIDE
Hard Drives			
<i>Ultra3 (Ultra160) SCSI Drives</i>			
1-inch	Up to 3	1, 2, 3, 4, 5	Integrated Ultra160 SCSI Controller
72-GB 10,000 rpm			
36.4-GB 10,000 rpm			
36.4-GB 15,000 rpm			
18.2-GB 15,000 rpm			
18.2-GB 10,000 rpm			
<i>Ultra ATA Drives</i>			
1-inch	Up to 3	1, 2, 3, 4, 5	Integrated EIDE
20-GB 7200 rpm			
40-GB 7200 rpm			
60-GB 7200 rpm			
80-GB 7200 rpm			
120-GB 7200 rpm			
Maximum Storage Capacity			
Internal	360 GB (assumes two removable media drives installed)		

Technical Specifications

System Unit	Tower Dimensions (HxWxD)	17.65 x 6.6 x 17.61 in/44.83 x 16.76 x 44.73 cm
Weight (standard configuration)	26 lbs/12 kg	
Power Supply	Operating Voltage Range Rated Voltage Range Rated Line Frequency Rated Input Current Maximum Rated Power Physical Dimensions Weight	90 VAC to 264 VAC 100 VAC to 120 VAC; 200 VAC to 240 VAC 50 Hz to 60 Hz 8.6A @ 115 VAC; 4.3A @ 230 VAC 460-Watt output 5.9 x 3.85 x 6.3 in/15 x 9.8 x 16 cm 4.5 lbs/2.05 kg
Temperature (Values are subject to change)	Operating Non-operating	50° to 95°F/10° to 35°C 4° to 140°F/-15° to 60°C
Humidity (non-condensing) (Values are subject to change)	Operating Non-operating	20% to 80% 10% to 90%
Maximum Altitude (nonpressurized)	Operating Non-operating	10,000 ft/3,048 m 30,000 ft/9,144 m
Compaq Easy Access Keyboard	Dimensions (HxWxD)	18.3 x 6.3 x 1.4 in/465 x 160 x 36 mm
	Weight	Approximately 2 lbs/0.9 kg
Electrical	Operating Voltage Power Consumption System Interface ESD EMI-RFI PC98	+5VDC ± 5% 50 mA maximum (with 3 LEDs on) PS/2 mini-din connector CE level 4, 15 kV air discharge Conforms to FCC rules for a Class B computing device Functionally compliant
Mechanical	Languages Keycaps Switch Actuation Switch Life Switch Type Key Leveling Mechanism Cable Length PC98-99 Acoustics	30+ available Low-profile design 55 g nominal peak force with tactile feedback 20 million keystrokes (using Hasco modified tester) Contamination resistant membrane For all double wide and greater length keys 6 ft/1.8 m Mechanically compliant 50 dBA maximum sound pressure level
Environmental	Operating Temperature Non-operating Temperature Operating Humidity Non-operating Humidity Operating Shock Non-operating Shock Operating Vibration Non-operating Vibration	50° to 122° F/10° to 50° C -22° to 140° F/-30° to 60° C 10% to 90% (non condensing at ambient) 20% to 80% (non condensing at ambient) 40 g, 6 surfaces 80 g, 6 surfaces 2 g peak acceleration 4 g peak acceleration

Technical Specifications

1.44-MB Diskette Drive	Diskette Size	3.5 in
	LED Indicators (front panel)	Green
	Read/Write Capacity per Diskette (high/low)	1.44 MB/720 KB
	Drive Height	One-third
	Drive Rotation	300 rpm
	Transfer Rate (high/low)	500/250 Kb/s
	Bytes/Sector	512
	Sectors/Track (high/low)	18/9
	Tracks/Side (high/low)	80/80
	Access Times	Track-to-Track (high/low) 3/6 ms Average (high/low) 94/173 ms Settling Time 15 ms Latency Average 100 ms
	Cylinders (high/low)	80/80
	Read/Write Heads	Two
Compaq 3-Button Mouse	Dimensions/Weight	Height 1.42 in/3.6 cm Length 4.17 in/10.7 cm Width 2.87 in/7.4 cm Weight 5.20 oz/150 g
	Environmental	Operating Temperature 32° to 104° F/0°C to 40° C Non-operating Temperature -4° to 140° F/-20° to 60°C Operating Humidity 10% to 90% (non condensing at ambient)
	Mechanical	Resolution 400 ± 20% DPI Tracking Speed 10 in/s Maximum Switch Life 1,000,000 operations (using Hasco modified tester) Switch Type Micro-switches Tracking Mechanism Life 155 miles/250 km at average speed of 10 in/s Cable Length 6 ft/1.8 m PC98-99 Mechanically compliant
	Regulatory Approvals	Compliant UL, CSA, FCC, CE Mark, TUV, TUV GS, VCCI, BSMI, C-Tick

Technical Specifications

Ultra160 SCSI Hard Drives	72 GB	Capacity	72,000 MB
	<i>250023-B21</i>	Height	1.0 in/40.64 mm
		Width	3.5 in/88.9 mm
		Interface	Ultra160 SCSI
		Synchronous Transfer Rate	160 MB/s (Maximum)
		Seek Time (typical reads, including settling)	Single Track 0.6 ms Average 5.2 ms Full-Stroke 12 ms Rotational Speed 10,000 rpm
		Logical Blocks	142,264,000
		Operating Temperature	50° to 95°F/10° to 35°C
	36.4 GB	Capacity	36,400 MB
	<i>191189-B21</i>	Height	1.0 in/25.4 mm
		Width	3.5 in/88.9 mm
		Interface	Ultra160 SCSI
		Synchronous Transfer Rate	160 MB/s (Maximum)
		Seek Time (typical reads, including settling)	Single Track 0.6 ms Average 4.7 ms Full-Stroke 12 ms Rotational Speed 10,000 rpm
		Logical Blocks	71,132,000
		Operating Temperature	50° to 95°F/10° to 35°C
	36.4 GB	Capacity	36419.2 MB
	<i>250022-B21</i>	Height	1 in/25.4mm
		Width	4.0in/101.6mm
		Interface	Wide Ultra3 SCSI
		Transfer Rate	Synchronous (Maximum) 160 MB/s
		Seek Time	Single Track 0.4 ms Average 3.8 ms Full-Stroke 7 ms Rotational Speed 15,000 rpm
		Physical Configuration	Bytes/Sector 512 Logical Blocks 71,132,000
		Operating Temperature	50° to 95°F/10° to 35°C
	18.2 GB	Capacity	18,209 MB
	<i>191188-B21</i>	Height	1 in/25.4 mm
		Width	3.5 in/88.9 mm
		Interface	Ultra160 SCSI
		Synchronous Transfer Rate	160 MB/s (Maximum)
		Seek Time (typical reads, including settling)	Single Track 0.8 ms Average 4.1 ms Full-Stroke 7.7 ms Rotational Speed 15,000 rpm
		Logical Blocks	35,566,000
		Operating Temperature	50° to 95°F/10° to 35°C

Technical Specifications

Ultra160 SCSI Hard Drives	18.2 GB	Capacity	18,209 MB
(continued)	159764-B21	Height	1 in/25.4 mm
		Width	3.5 in/88.9 mm
		Interface	Ultra160 SCSI
		Synchronous Transfer Rate	160 MB/s (Maximum)
		Seek Time (typical reads, including settling)	Single Track 0.6 ms Average 4.7 ms Full-Stroke 12 ms Rotational Speed 10,000 rpm
		Logical Blocks	35,566,000
		Operating Temperature	50° to 95°F/10° to 35°C

Technical Specifications

Ultra ATA Hard Drives	120 GB	Capacity	120,000 MB
	<i>250021-B21</i>	Height	1 in/25.4 mm
		Width	3.5 in/88.9 mm
		Interface	Ultra ATA/100
		Synchronous Transfer Rate	100 MB/s (Maximum)
		Seek Time (typical reads, including settling)	Single Track 1.2 ms (2.7 ms quiet seek) Average 8.0 ms (14.3 ms quiet seek) Full-Stroke 18.0 ms (24.1 ms quiet seek)
			Rotational Speed 7200 rpm
		Logical Blocks	234,441,648
		Operating Temperature	41° to 131°F (5° to 55°C)
 80 GB	 Capacity	 80,000 MB	
	<i>250020-B21</i>	Height	1 in/25.4 mm
		Width	3.5 in/88.9 mm
		Interface	Ultra ATA/100
		Synchronous Transfer Rate	100 MB/s (Maximum)
		Seek Time (typical reads, including settling)	Single Track 1.2 ms (2.7 ms quiet seek) Average 8.0 ms (14.3 ms quiet seek) Full-Stroke 18.0 ms (24.1 ms quiet seek)
			Rotational Speed 7200 rpm
		Logical Blocks	157,278,240
		Operating Temperature	41° to 131°F (5° to 55°C)
 60 GB	 Capacity	 60,000 MB	
	<i>230253-B21</i>	Height	1 in/25.4 mm
		Width	3.5 in/88.9 mm
		Interface	Ultra ATA/100
		Synchronous Transfer Rate	100 MB/s (Maximum)
		Seek Time (typical reads, including settling)	Single Track 1.2 ms (2.7 ms quiet seek) Average 8.0 ms (14.3 ms quiet seek) Full-Stroke 18.0 ms (24.1 ms quiet seek)
			Rotational Speed 7200 rpm
		Logical Blocks	117,231,408
		Operating Temperature	41° to 131°F/5° to 55°C

Technical Specifications

Ultra ATA Hard Drives <i>(continued)</i>	40 GB 201066-B21	Capacity	40,000 MB
		Height	1 in/25.4 mm
		Width	3.5 in/88.9 mm
		Interface	Ultra ATA
		Synchronous Transfer Rate	100 MB/s (Maximum)
		Seek Time (typical reads, including settling)	Single Track 1.2 ms (2.7 ms quiet seek) Average 8 ms (10.1 ms quiet seek) Full-Stroke 18.0 ms (21.1 ms quiet seek) Rotational Speed 7200 rpm
		Logical Blocks	78,165,360
		Operating Temperature	41° to 131°F/5° to 55°C
<hr/>			
	20 GB 176272-B21	Capacity	20,000 MB
		Height	1 in/25.4 mm
		Width	3.5 in/88.9 mm
		Interface	Ultra ATA
		Synchronous Transfer Rate	100 MB/s (Maximum)
		Seek Time (typical reads, including settling)	Single Track 1.2 ms (2.7 ms quiet seek) Average 8 ms (10.1 ms quiet seek) Full-Stroke 18.0 ms (21.1 ms quiet seek) Rotational Speed 7200 rpm
		Logical Blocks	39,102,336
		Operating Temperature	41° to 131°F/5° to 55°C

Technical Specifications

48X CD-ROM Drive	Disk	Applicable Disk	CD-ROM (Mode 1 and 2), CD-R/W, CD-R Photo CD (Single and Multi-session), Mixed Mode (Audio and Data combined), CDI Ready, CD-XA Ready, CD TEXT, CD EXTRA
	Capacity	540 MB (Mode 1, 12 cm) 650 MB (Mode 2, 12 cm)	
	Rotational Speed	8750 maximum	
	Diameter	4.7 in, 3.15 in/12 cm, 8 cm	
	Center Hole	0.6 in/15 mm diameter	
	Thickness	0.05 in/1.2 mm	
	Track Pitch	1.6 µm	
<hr/>			
Block Size	Mode 1 Mode 2 CD-DA CD-XA	2,048 bytes 2,340, 2,336 bytes 2,352 bytes 2,328 bytes	
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Interface	IDE		
<hr/>			
Access Times (typical)	Random Full-Stroke	< 100 ms < 150 ms	
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Audio Output Level	Line-Out	0.7 VRMS	
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Data Transfer Rate	Sustained Variable	150 KB/s (1X, using audio disc) 3,000 to 7,200 KB/s	
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Cache Buffer	128 KB minimum		
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Start-up Time (typical)	< 7 s		
<hr/>			
Stop Time	< 4 s		
<hr/>			
Operating Conditions	Temperature Humidity	41° to 113°F/5° to 45°C 10% to 80%	
<hr/>			
Dimensions	(HxWxD, maximum)	1.7 x 5.9 x 8.19 in/4.29 x 15 x 20.8 cm	
	Weight	2.65 lbs/1.2 kg	

Technical Specifications

16X/10X/40X CD-RW Drive	Interface	ATAPI IDE	
	Media formats written	CD-R and CD-RW	
	Media capacity	650 MB	
	Write methods	Disc-at-once, track-at-once, session-at-once, fixed packet, and variable packet	
	Recording/playing time	74 minutes	
	Data transfer rates	Sustained	CD-R write—2,400 Kbps (16X) CD-RW write (1-4X media) —1,500 Kbps (4X) CD-RW write (4-10X media) —1,500 Kbps (10X) CD-RW read—1,500 Kbps (10X) Digital audio extraction (minimum) —1,500 Kbps (10X) CD-ROM, CD-R read—1,500 to 6,000 Kbps (10X to 40X)
		Variable	CD-ROM, CD-R read—1,500 to 6,000 Kbps (10X to 40X)
	Data transfer modes	ATA PIO mode 4—16.7 Mbps ATA multi-word DMA mode 2—16.7 Mbps ATA UltraDMA mode 0—16.7 Mbps (mandatory and default setting) ATA UltraDMA mode 1—24 Mbps (optional); mode 2—33 Mbps (optional)	
	Media formats read	CD-audio, CD-ROM (modes 1 and 2), CD-ROM XA (mode 2, forms 1 and 2), single- or multi-session photo CD, CD-I, video CD, CD-text	
	Access times	Random	< 20 ms typical
		Full stroke	< 200 ms typical
	Rotational speed	17X-40X CAV 16X CLV 10X CLV 8X CLV 4X CLV	8,350 RPM (constant) 3,424-7,952 RPM 2,140-4,970 RPM 1,712-3,976 RPM 856-1,988 RPM
	Start-up time	Single Multi-session Stop time Block size	< 7 seconds typical < 30 seconds typical < 4 seconds Mode 1—2,048/2,352 bytes Mode 2, Form 1— 2,048/2,328/2,336/2,340/2,352 bytes Mode 2, Form 2—2,328/2,336/2,340/2,352 bytes CD-DA—2,352/2,368 bytes
	Disc diameter	120 mm or 80 mm	
	Track pitch	1.6 µm	
	Disc loading mechanism	Half-height, tray load	
	Operating conditions	Temperature Humidity	5° to 45° C (41° to 113° F) operating 10% to 80%

Technical Specifications

16X/10X/40X CD-RW Drive (continued)	Mounting orientation	Horizontal or vertical
	Dimensions	Fits in a standard 5.25-inch drive bay
	Weight	1.2 kg (2.6 pounds)
	Approvals/ environmental	UL 94 and 1950, CSA, CE, FDA, FCC
	Operating systems supported	Microsoft Windows 98, Microsoft Windows NT 4.0, Microsoft Windows 2000, Microsoft WindowsXP Professional
	Kit contents	16X CD-R media, CD-RW high-speed media, Roxio™ EasyCD Creator, Dantz Retrospect Express Backup for CD-RW, IDE cable (opal kit), audio cable

Technical Specifications

4.7-GB DVD-RAM Drive	Type	Internal mounting
	Total capacity	DVD-RAM 4.7 GB (per-side capacity) and 2.6 GB (per-side capacity)
	Data transfer rate	DVD-RAM (read) 2,770 Kbps (4.7 GB) 1,385 Kbps (2.6 GB) DVD-RAM (write) 1,385 Kbps (4.7 GB) with "write verify" enabled 695 Kbps (2.6 GB) DVD-ROM and DVD-R 3,438 to 8,310 Kbps (maximum 6X) CD-ROM 1,520 to 3,600 Kbps (maximum 24X)
	Burst transfer rate	33.3 Mbps maximum (Ultra DMA 33)
	Interface	Enhanced IDE (ATAPI)
	Bus speed	Ultra DMA 33
	Average seek time	DVD-RAM 75 ms DVD-ROM 65 ms CD-ROM 65 ms
	Access time (random)	DVD-RAM < 155 ms DVD-ROM < 135 ms CD-ROM < 135 ms
	Buffer capacity	1 MB (minimum)
	Dimensions	Drive (HxWxD) 1.67 x 5.83 x 8.18 inches (4.23 x 14.81 x 20.75 cm)
		Weight 2.65 pounds (1.20 kg)
	Compatible disc formats	DVD-RAM (read/write) 4.7 GB (per-side capacity) and 2.6 GB (per-side capacity); may be used with or without case DVD-ROM (read only) DVD-ROM (single- or dual-layer, single- or double-sided) DVD-video (read only) DVD-video DVD-R (read only) 3.9 GB (per side) CD-ROM (read only) CD-ROM, CD-R, CD-RW, CD-ROM XA, CD-I, CD-audio (CD-DA), photo CD multi-session, video CD
	Operating and storage conditions	Ambient temperature (operating) 41° to 113° F/5° to 45° C Relative humidity (operating) 10% to 85% relative humidity Mounting/operational orientation Operates in horizontal or vertical position
	Kit contents	DVD-RAM drive, single-sided 4.7-GB DVD-RAM media, InterVideo™ WinDVD 2000, Software Architects WriteDVD!™ software, IDE cable, audio cable, installation guide, user guide, warranty card
	Operating system support	Microsoft Windows 98/98 SE, Microsoft Windows 2000, Microsoft Windows XP Professional, and Microsoft Windows NT 4.0 Note: MPEG video playback is not supported on Microsoft Windows NT.

Technical Specifications

8X Combo CD-RW/DVD-ROM	5.25-inch, half-height, tray-load
Orientation	Either horizontal or vertical
Interface type	ATAPI
Dimensions—external, excluding bezel (W x H x D)	5.8 x 1.7 x 7.7 inches (146.5 x 42.1 x 196 mm)
Disc diameter	5 inches, 3 inches (12 cm, 8 cm)
Disc thickness	0.05 inch (1.2 mm)
Track pitch	1.6 µm (CD), 0.74 µm (DVD)
Disc center hole diameter	0.6 inch (15 mm)
Reference scanning velocity	1.2 m/s (CD); 3.5 m/s (DVD SL); 3.8 m/s (DVD DL)
Read only disc parameters	Formats and modes supported CD-ROM—Mode 1; CD-ROM XA—Mode 2 (forms 1 and 2); CD digital audio; CD Extra; CD-I—Mode 2 (forms 1 and 2) and CD-I-Ready; Photo CD (single and multi-session); video CD; DVD (single- and double-layer); DVD-R (3.95-GB); DVD-R (4.7-GB)
	Capacity 540 MB (CD— mode 1, 12 cm); 650 MB (CD—mode 2, 12 cm); 700MB (CD-ROM—80 minutes); 180 MB (CD-ROM—8 cm); 4.7 GB (DVD-5); 8.5 GB (DVD-9); 9.4 GB (DVD-10)
	Block size Mode 1—2,048 and 2,352 bytes; mode 2, form 1—2,048, 2,328, 2,336, 2,340 and 2,352 bytes; mode 2, form 2—2,328, 2,336, 2,340 and 2,352 bytes; CD-DA—2,352 and 2,368 bytes; DVD—2,048 bytes
Writable disc parameters	Disc type CD-R and CD-RW
	Write methods Disc at Once, Track at Once, Session at Once, Variable Packet, Fixed Packet
	Format and modes supported CD-ROM (mode 1); CD-ROM XA (mode 2, forms 1 and 2); CD digital audio, CD-I (mode 2, forms 1 and 2); video CD
	Capacity 540 MB (mode 1, 12 cm); 650 MB (mode 2, 12 cm); 700 MB (CD-ROM, 80 minutes); 180 MB (CD-ROM, 8 cm)
	Block size Mode 1 Disc type—2,048 bytes; mode 2, form 1—2,048 and 2,352 bytes; mode 2, form 2—2,352 bytes; CD-DA—2,352 bytes

Technical Specifications

8X Combo CD-RW/DVD-ROM (continued)	Access times (typical reads, including settling)	Random	< 130 ms (typical)		
		Full stroke	< 240 ms (typical)		
	Data transfer rates	Sustained—1,200 KB/s (8X)	CD-R write		
		Sustained— 600 KB/s (4X)	CD-RW		
		Sustained—1,200 KB/s (8X CAV)	Digital audio extraction (minimum)		
		Variable—1,500 to 4,800 KB/s (10X to 32X)	CD-ROM, CD-R read, CD-RW read		
		Variable—2,705 to 10,820 KB/s (2X to 8X)	DVD read		
	Data transfer modes	ATA PIO mode 4 (16.7 Mbps); ATA Multi-word DMA mode 2 (16.7 Mbps); ATA UltraDMA mode 0 (16.7-Mbps—default setting if UDMA supported); ATA UltraDMA mode 1 (24 Mbps, optional), mode 2 (33 Mpbs, optional)			
		Cache buffer	2 MB (minimum)		
		Startup time (single)	< 7 seconds (typical)		
		Startup time (multi-session)	< 30 seconds (typical)		
		Stop time	< 4 seconds		
Power	Source	Four-pin, DC power receptacle			
	DC power requirement	5 VDC ± 5%—100 mV ripple p-p			
		12 VDC ± 5%—200 mV ripple p-p			
	DC current	5 VDC (< 1 A typical, < 1.5 A maximum)			
		12 VDC (< 1 A typical, < 1.5 A maximum)			
	Total drive power (standby mode)	< 2.5 watt			
Audio output level	0.7 Vrms (typical)				
Configuration jumper block	Master, slave, and cable select modes				
Data interface connector	40-pin, shrouded and keyed, flat ribbon				
Environmental (all conditions non-condensing)	Temperature (operating)	41° to 113°F (5° to 45°C)			
	Relative humidity (operating)	10% to 85%			
	Maximum wet bulb temperature (operating)	86°F (30°C)			
Certifications, requirements	MPC-3 compliant, multi-read requirements, PC'99 certified, ACA AS/NZS 3548, ANSI C63.4-1992, ATAPI Spec SFF-8020, ATA Spec X3T9.2791D, Australian Communications Authority, CB Bulletin No. 92A1, CFR 21, Part 1040, CSA C22.2 No. 950, C.I.S.P.R. Pub 22, ECMA 74, EEC/93/68, EEC/73/23, EEC/99/5, EMKO-TSE (74SEC) 207/94				
Operating systems supported	Microsoft Windows 98, Microsoft Windows NT 4.0, Microsoft Windows 2000, and Microsoft WindowsXP Professional				
	Note: MPEG video playback is not supported on Microsoft Windows NT.				
Option kit contents	8X Combo CD-RW/DVD-ROM Drive, Roxio™ EasyCD Creator, InterVideo™ WinDvd™ 2000, Dantz Retrospect Express for RW, CDR media, CD-RW media, audio cable, and installation guide				

Technical Specifications

16X/40X DVD-ROM Drive with RAM Read	Bus	Ultra DMA 33
	Data Transfer Rate (1 KB = 1024 bytes)	Sustained DVD = 8.1 MB/s to 21.6 MB/s CD-ROM = 2.55 KB/s to 6.00 KB/s
	Disk Rotation Technology	DVD: CAV -Constant Angular Velocity CD: CAV - Constant Angular Velocity
	Access Time (ms)	Random DVD = <100 ms; CDROM = < 80 ms Full Stroke Seek DVD = <240 ms; CDROM = <160 ms
	Cache Buffer Standard / Max	512 KB
	ATAPI Interface	ATAPI
	Disk Formats Read	DVD-ROM Yes DVD-Video Yes DVD-R Yes DVD-RW Yes DVD-RAM Yes Photo-CD/Multi-session Yes CD-ROM Yes CD TEXT Yes Audio CD Yes CD-I Yes CD-RW Yes CD-R Yes CD-DA Yes Video CD Yes CD EXTRA Yes CD-ROM XA Yes MPEG Yes MPC Level 2 Yes
	Disk Formats Written	None
	Disk	Capacity CD = 650 MB DVD: 4.7 GB, 8.5 GB, 9.4 GB Block Size Mode 0 2352 (bytes) Mode 1 2352, 2340, 2336, 2048 (bytes) Mode 2 2352, 2340, 2336, 2048 (bytes) DVD – 2048 (bytes) Diameter 12 cm, 8 cm Thickness 1.2 mm (CD-ROM) 1.2 mm (DVD)

Technical Specifications

16X/40 DVD-ROM Drive with RAM Read (continued)	Audio Output Level	Line Out Headphones	0.7± 0.1 Vrms 0.45 ± 0.2 Vrms
	Operating Conditions	Temperature Humidity	41° to 113°F/5° to 45°C 5% to 85% relative humidity
	Dimensions (HxWxD)	Inches Centimeters	1.67 x 5.83 x 8.18 4.23 x 14.8 x 20.75
	Weight	Pounds Kilograms	2.22 1
	Agency Approvals / Environmentals	UL, CSA, TUV, FDA, FCC, CE, EMI	
	OS Support	Windows 98/98SE, Windows ME, Windows 2000, Microsoft Windows XP Professional, and Windows NT 4.0 (for data applications only)	
	MPEG Video playback compatibility	Please refer to the platform for support	
	RPC2 (Regional Protection Control)	Yes	
	Minimum CPU Supported	Pentium II 400 MHz or Celeron 466 MHz	
	Mounting Orientation	Operates in horizontal or vertical position.	
	Kit Contents	DVD-ROM Drive, MPEG playback software, ReadDVD™ software, IDE Cable, audio cable, installation instructions, and warranty card.	

Technical Specifications

Intel PRO/100 + Management Adapter	Network Interface	10Base-T or 100Base-TX
	Expansion Bus Architecture	PCI 2.2
	Network Transfer Rate	10Base-T (Half-Duplex) 10 Mb/s 10Base-T (Full-Duplex) 20 Mb/s 100Base-TX (Half-Duplex) 100 Mb/s 100Base-TX (Full-Duplex) 200 Mb/s
	Connectors	RJ-45
	Standards Compliance	10-MB/s Ethernet IEEE 802.3 100-Mb/s Ethernet IEEE 802.3μ
	I/O Address	Auto-configured
	Remote Wakeup	Yes
	Operating Temperature	0° to 55°F/10° to 35°C
	Operating Humidity (non-condensing)	85% at 131°F/55°C
	Operating Altitude	10,000 ft/3,048 m
	Communication Processor	Intel 82559
	OS Driver Support	Windows NT 4.0 NDIS 3.0, 4.0 Compliant Windows 95, 98, 2000, XP Pro NDIS 3.0, 4.0, 5.0 Compliant Novell NetWare Server v. 3.x, 4.x ODI Compliant and 5.0 SunSoft Solaris™ Not supported SCO UnixWare, OpenDesktop, Supported OpenServer

Technical Specifications

NVIDIA Quadro2 Pro Graphics Controller	3D/2D Controller	Integrated Quadro2 Pro 2D/3D 128-bit graphics processor unit (GPU)		
	VGA Controller	Integrated into the Quadro2 Pro GPU		
	Bus type	AGP 4X		
	RAMDAC	350 MHz		
	Memory type	400 MHz 4Mx16DDr-5ns		
	Memory amount	64 MB		
	Memory Speed	400 MHz (DDR)		
	Controller clock speed	250 MHz		
	Color planes	32-bit color buffer		
	Overlay planes	1 16-bit Video overlay plane, software emulation for OpenGL overlay planes		
	Stencil planes	8-bit stencil buffer		
	Alpha planes	8-bit alpha buffer		
	Z-buffer	24-bit		
	Total bits/pixel	64		
	Maximum vertical refresh rate	240 Hz		
	Maximum pixel clock	350 MHz		
	Multi-display support	No		
	Operating systems	Microsoft Windows 2000, Microsoft Windows XP Professional, Windows NT 4.0 available from Compaq		
Resolution	Maximum Colors Supported	Maximum Refresh Rate	Memory Dedicated to Texture Support	
640 x 480	16.7 M	240 Hz	60.4 MB	
800 x 600	16.7 M	240 Hz	58.4 MB	
1024 x 768	16.7 M	240 Hz	54.8 MB	
1152 x 864	16.7 M	200 Hz	52.3 MB	
1280 x 1024	16.7 M	150 Hz	48.6 MB	
1600 x 1000	64 K	120 Hz	54.6 MB	
1600 x 1000	16.7 M	120 Hz	45.3 MB	
1600 x 1200	64 K	100 Hz	52.8 MB	
1600 x 1200	16.7 M	100 Hz	41.5 MB	
1600 x 1280	64 K	100 Hz	52 MB	
1600 x 1280	16.7 M	100 Hz	40 MB	
1920 x 1080	64 K	85 Hz	51.9 MB	
1920 x 1080	16.7 M	85 Hz	39.7 MB	
1920 x 1200	64 K	85 Hz	50.5 MB	
1920 x 1200	16.7 M	85 Hz	37 MB	

Technical Specifications

Matrox Millennium G550 AGP Graphics Controller	Form factor	Low profile (LP) board with ATX bracket attached (kit also includes a Small Form Factor (SFF) bracket)
	Bus type	AGP 4X, AGP 2X, and AGP 1X
	Standard memory	32-MB, high-speed DDR
	DAC speed	360-MHz RAMDAC; secondary 230-MHz RAMDAC
	Data path	64-bit DDR external bus to frame buffer memory/256-bit internal
	Internal bus width	256-bit DualBus
	Memory interface	64-bit DDR Memory
	Frame buffer	32 MB
	Operating systems supported	Microsoft Windows 2000, Microsoft Windows 98, Microsoft Windows NT 4.0, Microsoft Windows XP Professional
	Two integrated RAMDACS	Yes
	3-D engine acceleration	Matrox HeadCasting* engine, two dual-textured 3-D pixels/clock for fast 3-D game play, dual pixel pipelines with dual texturing units per pipeline, floating point 3-D setup engine with dynamically re-allocatable resources; Microsoft DirectX Environment-Mapped Bump Mapping; Vibrant Color Quality rendering: bilinear, 8-sample-per-pixel trilinear, and anisotropic filtering; Microsoft DirectX and OpenGL® alpha blending modes; Z-buffer support
	3-D features	Single cycle multi-texturing Environment-mapped bump mapping Internal rendering Source textures Maximum texture size 32-bit color output 32-bit independent Z-buffer Stencil buffering AGP texturing Trilinear filtering Microsoft DirectX support OpenGL support
	DualHead 3-D display features	HeadCasting, Microsoft DirectX compliant, dual texturing units per pixel pipeline, two pixel pipelines, single-cycle multi-texturing, environment-mapped bump mapping, 32-bit internal rendering precision, up to 32-bit source textures, 32-bit color output, bilinear, trilinear and anisotropic 3-D filtering, 32-bit independent Z-buffer, OpenGL support
	Other 3-D features	Alpha blending, fogging, specular highlighting, environment mapping, stencil buffering, triple buffering, AGP texturing
	Other	Texture mapping support; true color RGB, flat, and Gouraud shading; Direct3-D support; anisotropic filter; perspective-correct texture mapping; specular highlighting (any color); hardware dithering (including dithering of LUT textures); sort-dependent antialiasing; vertex and table fogging; dual texture mapping; Plug-and-Play; 0.18-micron technology (lower heat/power consumption); high-quality DVD playback with DVDMAX; color space conversion; QuickDraw supported DCI and Microsoft DirectX and OpenGL blend modes; Microsoft DirectDraw support; support for picture-in-picture and multiple video windows; Unique Motion Video Rendering support
	Optional software bundles (not included)	Matrox Virtual Presenter for Microsoft PowerPoint; Digimask™ System, HeadFone™ by LipSinc; The Matrox Software DVD Player; eDualHead browser enhancements (PageWrap, PageLog, and PageJump); Matrox PowerDesk

Technical Specifications

Matrox Millennium G550 AGP Graphics Controller (continued)	DualHead configurations	VGA monitor/analog flat panel + VGA monitor/analog flat panel VGA monitor/analog flat panel + television Digital flat panel + VGA monitor/analog flat panel Digital flat panel + television
	DualHead 2-D display features	DualHead Multi-Display support; DualHead Browser Enhancement Suite, DualHead DVDMax, DualHead Zoom, DualHead Clone, DVDMAX, DualHead MultiDesk, DualHead TV-out, DualHead Snapshot, Dual DVI support; True Multi-Display support with Microsoft Windows 2000
	DualHead display technology chip specifications	Multiple independent displays with a single AGP card: analog flat panel (RGB monitor)/analog flat panel (RGB monitor); digital flat panel/digital flat panel
Note: System recommendations for HeadCasting and DVD—450-MHz or higher computer; 128 MB RAM; 56-K or higher modem with minimum 40-K connection, microphone, and DVD-ROM; Internet Explorer 5.5 or higher, Microsoft PowerPoint 2000 or Microsoft PowerPoint XP (for Matrox Virtual Presenter)		
Resolutions Supported	Maximum Colors Supported	Refresh Rates
640 x 480	16 million	200 Hz vertical, 130 kHz horizontal
800 x 600	16 million	200 Hz vertical, 130 kHz horizontal
1024 x 768	16 million	160 Hz vertical, 130 kHz horizontal
1152 x 864	16 million	150 Hz vertical, 130 kHz horizontal
1280 x 1024	16 million	120 Hz vertical, 130 kHz horizontal
1600 x 1200	16 million	100 Hz vertical, 130 kHz horizontal
1800 x 1440	16 million	90 Hz vertical, 120 kHz horizontal
1920 x 1440	16 million	85 Hz vertical, 115 kHz horizontal
2048 x 1536	16 million	85 Hz vertical, 110 kHz horizontal
Secondary Resolutions Supported	Maximum Color Depths (bpp)	Refresh Rates
640 x 480	16 million	200 Hz vertical, 130 kHz horizontal
800 x 600	16 million	200 Hz vertical, 130 kHz horizontal
1024 x 768	16 million	160 Hz vertical, 130 kHz horizontal
1152 x 864	16 million	140 Hz vertical, 130 kHz horizontal
1280 x 1024	16 million	120 Hz vertical, 130 kHz horizontal
1600 x 1200	16 million	100 Hz vertical, 130 kHz horizontal

Technical Specifications

Matrox Millennium G450 Graphics Controllers	Form Factor	ATX
	Bus Type	AGP 1X, 2X, 4X: PCI rev 2.2 bus specification
	Standard Memory	AGP: 32 MB / PCI: 16 MB
	DAC Speed	360 MHz (secondary DAC: 200 MHz)
	Data Path	64-bit DDR External/256-bit Internal
	Internal Bus Width	256-bit DualBus
	Memory Interface	64-bit DDR Memory
	Frame Buffer	AGP: 32 MB / PCI: 16 MB
	Two Integrated RAMDACS	Yes
	Engine Acceleration	3 ROP bitBLT, line draw, text, color expansion, basic video color conversion and scaling, triangle setup engine
	Output	Analog, 2 ports
	OS Support	Microsoft Windows 2000, Microsoft Windows XP Professional, Windows 98 and Windows NT 4.0 available from Compaq.
3D Features	PCI bus mastering, texture mapping support, flat and Gouraud shading, direct 3D support, Anisotropic Filter, perspective texture, specular highlighting, wireframe, dithering, full scene anti-aliasing, vertex fog, dual texture mapping, Plug-and-Play AGP 2X and AGP 4X, 0.18-micron technology (lower heat/power consumption), high-quality DVD playback with full access to Windows, Color Space Conversion, Quick Draw support, DCI and DirectX video playback, MS DirectDraw support	
	Single-cycle multi-texturing	Yes
	Environment-Mapped Bump Mapping	Yes
	Internal Rendering	32-bit
	Source Textures	Up to 32-bit
	Maximum Texture Size	2048 x 2048
	Hardware non-power-of- 2 textures	Yes
	32-bit Color Output	Yes
	32-bit Independent Z-buffer	Yes
	Stencil Buffering	Yes
	AGP Texturing	Yes
	Trilinear Filtering	Yes
DualHead Display Features	DirectX Support	Yes
	OpenGL Support	Yes
DualHead Display Features		Multi-Display Mode, DVD Max Mode, DualHead Zoom Mode, DualHead Clone Mode, DualHead TV Output Mode, Single Chip Multi-Monitor Support

Technical Specifications

Matrox Millennium G450

Graphics Controllers

(continued)

Supported Modes

This list assumes setup to be DualHead multi-display running Microsoft Windows 98. If using Windows NT 4.0 or Windows 2000 while in multi-display, primary CRT is limited to modes supported by 2nd CRT.

Primary CRT Color Depths

640 x 480

Color Depths (bpp)

8, 16, 24, 32

Refresh Rates

60 Hz, 72 Hz, 75 Hz, 85 Hz

800 x 600

8, 16, 24, 32

60 Hz, 72 Hz, 75 Hz, 85 Hz

1024 x 768

8, 16, 24, 32

60 Hz, 70 Hz, 75 Hz, 85 Hz

1152 x 864

8, 16, 24, 32

75 Hz

1280 x 960

8, 16, 24, 32

60 Hz, 75 Hz, 85 Hz

1280 x 1024

8, 16, 24, 32

60 Hz, 75 Hz, 85 Hz

1600 x 1200

8, 16, 24, 32

60 Hz, 65 Hz, 70 Hz, 75 Hz,

85 Hz

(available in single monitor
configuration only)

1800 x 1440

8, 16, 24

60 Hz, 72 Hz, 75 Hz, 85 Hz

1856 x 1392

8, 16, 24

60 Hz, 75 Hz, 85 Hz

1920 x 1440

8, 16, 24

60 Hz, 75 Hz, 85 Hz

2048 X 768

8, 16

Refresh Rates

Secondary CRT Color Depths

640 x 480

Color Depths (bpp)

60 Hz, 72 Hz, 75 Hz, 85 Hz

800 x 600

16, 32

60 Hz, 72 Hz, 75 Hz, 85 Hz

1024 x 768

16, 32

60 Hz, 70 Hz, 75 Hz, 85 Hz

1152 x 864

16, 32

75 Hz

1280 x 960

16, 32

60 Hz, 75 Hz, 85 Hz

1280 x 1024

16, 32

60 Hz, 75 Hz, 85 Hz

1600 x 1200

16, 32

60 Hz, 65 Hz, 70 Hz, 75 Hz,

85 Hz

Technical Specifications

Matrox G200 Quad Multi-Monitor Series (MMS) Graphics Controller	Dimensions (HxW)					
	Refresh Rate (per display)					
	Aspect Ratio	Resolution	Vertical	Horizontal		
	4:3/5:4	640 x 480	60 to 200 Hz	31 to 102 kHz		
		800 x 600	60 to 200 Hz	38 to 114 kHz		
		1024 x 768	60 to 140 Hz	48 to 113 kHz		
		1152 x 864	60 to 120 Hz	54 to 110 kHz		
		1280 x 1024	60 to 100 Hz	64 to 107 kHz		
		1600 x 1200	60 to 90 Hz	75 to 113 kHz		
		1800 x 1440	60 to 70 Hz	89 to 104 kHz		
	16:9/16:10	856 x 480	60 to 200 Hz	30 to 108 kHz		
		1280 x 720	60 to 100 Hz	44 to 76 kHz		
		1600 x 1024	60 to 100 Hz	64 to 108 kHz		
		1920 x 1080	60 to 80 Hz	70 to 94 kHz		
		1920 x 1200	60 to 76 Hz	75 to 95 kHz		
With DVI digital flat panel displays, the maximum display resolution is 1280 x 1024.						
Maximum refresh rates may not be attainable at the highest display resolutions with 24 or 32-bit color palettes.						
Interface	PCI					
	Standard Memory					
DAC Speed		32-MB SGRAM (8 MB per port)				
Data Path		250 MHz				
Color Space Conversion		128-bit Internal/64-bit External				
Scaling		Yes				
Quick Draw Support		Yes				
DCI & DirectX Video Playback		Yes				
Direct3D Support		Yes				
Engine Acceleration		3 ROP bitBLT, Line Draw, Text, Color Expansion, Basic Video Color Conversion and Scaling, Triangle Setup Engine				
Output	Two output ports, which require 2 adapter cables to connect analog or digital output displays					
	Analog Display Support		2 RGB cables support two DB-15 analog displays per cable			
	DVI (Digital Visual Interface) Display Support		DVI cable option kit provides two DVI cables for connecting two DVI compliant displays per cable			
	Display options supported		Four analog displays via two RGB cables			
		Four DVI displays via two DVI cables				
		Two analog displays via one RGB cable and two DVI displays via one DVI cable				
Other		PCI bus-mastering, texture mapping support, flat and Gouraud shading, Anisotropic Filter, perspective texture, specular highlighting, dithering, full scene anti-aliasing, Vertex fog				
OS Support		Windows 2000 (not available for Chinese, Taiwanese, or Korean languages), Microsoft Windows XP Professional, and Windows NT 4.0				

Technical Specifications

NVIDIA Quadro2 MXR Graphics Controller	Dimensions (LxHxW)	Approximately 6.5 x 3.8 x 0.6 in/16.51 x 9.65 x 1.52 cm		
	Resolution	Maximum Colors Supported	Maximum Refresh Rate	Memory Dedicated to Texture Support
	640 x 480	16.7 M	240 Hz	28.4 MB
	800 x 600	16.7 M	240 Hz	26.4 MB
	1024 x 768	16.7 M	200 Hz	22.8 MB
	1152 x 864	16.7 M	170 Hz	20.3 MB
	1280 x 1024	16.7 M	150 Hz	16.6 MB
	1600 x 1000	64 K	120 Hz	22.6 MB
	1600 x 1000	16.7 M	120 Hz	13.3 MB
	1600 x 1200	64 K	100 Hz	20.8 MB
	1600 x 1200	16.7 M	100 Hz	9.5 MB
	1600 x 1280	64 K	100 Hz	20 MB
	1600 x 1280	16.7 M	100 Hz	8 MB
	1920 x 1080	64 K	85 Hz	19.9 MB
	1920 x 1080	16.7 M	85 Hz	7.7 MB
	1920 x 1200	64 K	85 Hz	18.5 MB
	1920 x 1200	16.7 M	85 Hz	5 MB
3D/2D Controller	Integrated Quadro2 MXR 2D/3D 128-bit graphics processor unit (GPU)			
VGA Controller	Integrated into the Quadro2 MXR GPU			
Bus Type	AGP 2X, 4X Graphics Bus			
RAMDAC	350 MHz			
Memory Type	183 MHz SDR 2Mx32			
Memory Amount	32 MB			
Memory Speed	183 MHz			
Controller Clock Speed	200 MHz			
Color Planes	32-bit color buffer			
Overlay Planes	1 16-bit Video overlay plane, software emulation for OpenGL overlay planes			
Stencil Planes	8-bit stencil buffer			
Alpha Planes	8-bit alpha buffer			
Z-buffer	24-bit Z buffer			
Total bits/pixel	64-bits			
Maximum Vertical Refresh Rate	240 Hz			
Maximum Pixel Clock	350 MHz			
Multi-display support	Yes			
Operating Systems	Microsoft Windows 2000, Microsoft Windows XP Professional, Windows NT 4.0 available from Compaq			

Technical Specifications

NVIDIA Quadro2 EX Graphics Controller	Resolution	Maximum Colors Supported	Maximum Refresh Rate	Memory Dedicated to Texture Support
	640 x 480	16.7 M	120 Hz	28.4 MB
	800 x 600	16.7 M	120 Hz	26.4 MB
	1024 x 768	16.7 M	120 Hz	22.8 MB
	1152 x 864	16.7 M	120 Hz	20.3 MB
	1280 x 1024	16.7 M	100 Hz	16.6 MB
	1600 x 1000	16.7 M	85 Hz	13.3 MB
	1600 x 1200	64 K	100 Hz	20.8 MB
	1600 x 1200	16.7 M	85 Hz	9.5 MB
	1920 x 1080	64 K	85 Hz	19.9 MB
	1920 x 1080	16.7 M	75 Hz	7.7 MB
	1920 x 1200	64 K	85 Hz	18.5 MB
	1920 x 1200	16.7 M	70 Hz	5 MB
Dimensions (LxHxW)	Approximately 6.5 x 2.5 x 0.6 in/16.5 x 6.4 x 1.5 cm			
3D/2D Controller	Integrated Quadro2 EX 2D/3D 128-bit graphics processor unit (GPU)			
VGA Controller	Integrated into the Quadro2 EX GPU			
Bus Type	AGP 2X, 4X			
RAMDAC	350 MHz			
Memory Type	183 MHz SDR 2Mx32			
Memory Amount	32 MB			
Memory Speed	166 MHz			
Controller Clock Speed	175 MHz			
Color Planes	32-bit color buffer			
Overlay Planes	One 16-bit Video overlay plane, software emulation for OpenGL overlay planes			
Stencil Planes	8-bit stencil buffer			
Alpha Planes	8-bit alpha buffer			
Z-buffer	24-bit Z buffer			
Total bits/pixel	64-bits			
Maximum Vertical Refresh Rate	240 Hz			
Maximum Pixel Clock	350 MHz			
Multi-display support	No			
Operating Systems	Microsoft Windows 2000, Microsoft Windows XP Professional, Windows NT 4.0 available from Compaq			

Note: All drivers and enhanced software can be found on the Compaq web site at:www.compaq.com/support/files/workstations/us/index.html.

Technical Specifications

3Dlabs Wildcat II 5110	Dimensions (LxHxW)	Approximately 13.5 x 3.8 x 1.5 in/ 34.29 x 9.65 x 3.81 cm			
	Aspect Ratio	96 bits per pixel	128 bits per pixel	160 bits per pixel	192 bits per pixel
	4 x 3	1920 x 1440 @75 Hz	1920 x 1440 @75 Hz	1920 x 1440 @75 Hz	1920 x 1440 @75 Hz
	5 x 4	1600 x 1280 @76 Hz	1600 x 1280 @76 Hz	1600 x 1280 @76 Hz	1600 x 1280 @76 Hz
	16 x 9	2048 x 1152 @75 Hz	2048 x 1152 @75 Hz	2048 x 1152 @75 Hz	2048 x 1152 @75 Hz
	16 x 10	1920 x 1200 @75 Hz	1920 x 1200 @75 Hz	1920 x 1200 @75 Hz	1920 x 1200 @75 Hz
	5 x 4 Frame Sequential Stereo	1280 x 1024 @60 Hz	1280 x 1024 @60 Hz	1280 x 1024 @60 Hz	1280 x 1024 @60 Hz
	4 x 3 Frame Sequential Stereo	1280 x 960 @60Hz	1280 x 960 @60Hz	1280 x 960 @60Hz	1280 x 960 @60Hz
	3D/2D Controller	3Dlabs Wildcat II 2D/3D graphics controller technology			
	VGA Controller	Standard VGA onboard			
	Bus Type	AGP 4X / AGP Pro Graphics Bus			
	RAMDAC	300 MHz			
	Memory Type	SDRAM			
	Memory Amount	64 MB			
	Memory Speed	166 MHz			
	Controller Clock Speed	204 MHz			
	Color Planes	32-bit color buffer			
	Overlay Planes	8-bit double buffer			
	Stencil Planes	8-bit stencil buffer			
	Alpha Planes	8-bit alpha double buffer			
	Z-buffer	24, 32-bit Z buffer			
	Total bits/pixel	96, 128, 160, 192			
	Maximum Vertical Refresh Rate	90 Hz			
	Maximum Pixel Clock	300MHz (analog); 162 Mhz (digital)			
	Multi-display support	Yes			
	Operating Systems	Microsoft Windows 2000, Microsoft Windows XP Professional, and Windows NT 4.0 available from Compaq			

Technical Specifications

ATI Fire GL2 Graphics Controller	Dimensions (HxW)	Approximately 6.5 x 3.8 x 0.6 in/16.51 x 9.65 x 1.52 cm		
		Maximum Colors Supported	Maximum Refresh Rate	Memory Dedicated to Texture Support
Resolution				
640 x 480	16.7 M	240 Hz	28.4 MB	
800 x 600	16.7 M	240 Hz	26.4 MB	
1024 x 768	16.7 M	200 Hz	22.8 MB	
1152 x 864	16.7 M	170 Hz	20.3 MB	
1280 x 1024	16.7 M	150 Hz	16.6 MB	
1600 x 1000	64 K	120 Hz	22.6 MB	
1600 x 1000	16.7 M	120 Hz	13.3 MB	
1600 x 1200	64 K	100 Hz	20.8 MB	
1600 x 1200	16.7 M	100 Hz	9.5 MB	
1600 x 1280	64 K	100 Hz	20 MB	
1600 x 1280	16.7 M	100 Hz	8 MB	
1920 x 1080	64 K	85 Hz	19.9 MB	
1920 x 1080	16.7 M	85 Hz	7.7 MB	
1920 x 1200	64 K	85 Hz	18.5 MB	
1920 x 1200	16.7 M	85 Hz	5 MB	
Form Factor	ATX			
3D/2D Controller	IBM RC1000 Rasterizer Chip			
VGA Controller	IBM RC1000 Rasterizer Chip			
Bus Type	AGP 2X/4X Version 2 compliant including side band signaling support			
RAMDAC	300 MHz IBM RC1000			
Memory Type	DDR SGRAM			
Memory Amount	64 MB DDR SGRAM unified frame buffer, Z-buffer and Texture storage			
Memory Speed	120 MHz			
Controller Clock Speed	120 MHz			
Color Planes	32 bit, True Color			
Overlay Planes	8-bit			
Stencil Planes	8-bit			
Alpha Planes	8-bit			
Z-buffer	24-bit			
Video Engine support	YUV (4:2:2, 4:2:0) conversion, point and bilinear scaling			
Mini-Din Stereo Interface support	StereoGraphics CrystalEyes shutter glasses			
Monitor	15-pin D-type analog			
Flat Panel Interface	DVI-D digital (supported resolutions up to 1280x1024)			
Video Timings compliance	VESA DMT 1.0 and VESA GTF 1.0 specifications			
Total bits/pixel	117			
Maximum Vertical Refresh Rate	100 Hz / 120 Hz when Quad Buffer Stereo is enabled			
Maximum Pixel Clock	300 MHz			
Operating Systems	Microsoft Windows 2000, Microsoft Windows XP Professional, and Windows NT 4.0			

Note: All drivers can be found on the Compaq web site at:
www.compaq.com/support/files/workstations/us/index.html.

Technical Specifications

ATI Fire GL4 3-D Graphics Accelerator	Dimensions	10.2 x 4.3 inches (26.0 x 10.8 cm)
	3-D/2-D controller	ATI Fire GL4 3-D and 2-D Graphics Accelerator
	VGA connector	Standard VGA on board
	Bus type	AGP Pro50 1x/2x/4x
	RAMDAC	300-MHz, 30-bit
	Memory	Type—DDR SDRAM Amount—128 MB Speed—145 MHz Bus width—256 bits
	Geometry engine core clock speed	190 MHz
	Colour planes	Four
	Overlay planes	8-bit DB (double buffer)
	Stencil planes	8-bit clip/stencil planes
	Alpha planes	8-bit stored alpha planes DB
	Display data channel (DDC)	DDC2B support
	Power Draw	8.5A@ 3.3V; 1.8A @ 5V; .5A @ 12V
	Z-buffer	24-bit z buffer
	Total bits per pixel	32
	Maximum vertical refresh rate	100 Hz (120 Hz stereo)
	Maximum pixel clock	300 MHz single head, 135 MHz dual head
	Multi-display support	Yes, two VGA or two DVI
	Operating systems support	Microsoft Windows 2000, Microsoft Windows NT 4.0, Windows XP Professional
	Software support	2-D—GDI / GDI+ (GDI 2K) 3-D—OpenGL 1.1 / 1.2 Note: OpenGL extensions support the requirements of OpenGL applications
	Bus interface	AGP 1X/2X/4X; universal connector/slot—use one AGP Pro, one PCI physical space, no connector
	Form factor	AGP Pro50 ATX half-length
	Regulatory certifications	UL 1950 (U.S.), CUL 1950, CSA C22.2 No. 950 (1995), IEC 950, CISPR 22, 2 nd Edition 1993, FCC Class B, CE, CSA C108.8 Class B, SMA AS/NZS 3548 (Australia) C-Tick
	Documentation	User guide (CD and online)
	Connectors	2 DVI-I; one standard three-pin stereo connector
CRT Resolutions	Maximum Refresh Rate	Bits per Pixel
1920 x 1200	60, 76, 75Hz	32
1600 x 1200	60, 75 and 85Hz	32
1280 x 1024	60, 75, 85 and 100Hz	32
1280 x 960	60, 75, 85 and 100Hz	32
1600 x 1000	60, 76, and 85Hz	32
1024 x 768	60, 75, 85, 100, and 120 Hz (stereo)	32
800 x 600	60, 75, 85, 100, and 120 Hz (stereo)	32
640 x 480	60, 75, 85, 100, and 120 Hz (stereo)	32

Technical Specifications

ATI Fire GL4 3-D Graphics Accelerator (<i>continued</i>)	Digital Resolutions	Maximum Refresh Rate	Bits per Pixel
	1600 x 1200	60 Hz	32
	1280 x 1024	60, 75 and 85Hz	32
	1280 x 960	60, 75 and 85Hz	32
	1600 x 1000	60 Hz	32
	1024 x 768	60, 75, 85 and 100 Hz	32
	800 x 600	60, 75, 85 and 100Hz	32
	640 x 480	60, 75, 85 and 100Hz	32

Note: The above table shows the highest resolutions supported for the Fire GL 4 when it is configured in single display mode. Resolutions higher than 1600 x 1200 are supported only for analog CRT monitors. Digital output not recommended for stereo support.

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